

Claims

- [c1] A piston ring, comprising:
a generally annular body having an outer peripheral face;
wherein said outer peripheral face is generally tapered to
define an edge and includes a projection extending
therefrom.
- [c2] A piston ring according to Claim 1, wherein the piston
ring is disposed in a ring groove of a piston having a
plurality of boundaries
- [c3] A piston ring according to Claim 1, wherein said outer
peripheral face contacts a wall of a surrounding cylinder
at said edge.
- [c4] A piston ring according to Claim 3, wherein a gap is de-
fined between said outer peripheral face and the sur-
rounding cylinder wall.
- [c5] A piston ring according to Claim 4, wherein said projec-
tion generally minimizes said gap between said outer
peripheral face and the wall of the cylinder.
- [c6] A piston ring according to Claim 1, wherein a lower sur-
face of the piston ring includes a generally hook-shaped

groove and the intersection of the generally hook-shaped groove and the outer peripheral face defines an edge.

- [c7] A piston ring according to Claim 1, wherein said annular body includes an upper surface and said projection extends radially outwardly from said outer peripheral face along said upper surface.
- [c8] A piston ring according to Claim 1, wherein said projection is generally rectangular and includes an outer surface.
- [c9] A piston ring according to Claim 7, wherein said outer surface of said generally rectangular projection is substantially parallel to a wall of a surrounding cylinder.
- [c10] A piston ring according to Claim 7, wherein said rectangular projection defines a ledge extending radially from said outer peripheral face.
- [c11] A piston ring disposed in a ring groove of a piston and surrounded by a wall of a cylinder, the piston ring comprising:
 - a generally annular body having generally parallel upper and lower surfaces disposed between inner and outer peripheral faces;
 - said outer peripheral face being generally tapered to an

edge such that said edge contacts the wall of the cylinder and defines a gap between said outer peripheral face and the wall; and
a projection disposed on said outer peripheral face to reduce the gap between said outer peripheral face and the wall.

- [c12] A piston ring according to Claim 11, wherein said projection is generally rectangular.
- [c13] A piston ring according to Claim 11, wherein said projection extends radially outwardly along said upper surface.
- [c14] A piston ring according to Claim 11, wherein said projection includes an outer surface substantially parallel to the wall of the cylinder.
- [c15] A piston ring according to Claim 11, wherein said projection defines a ledge extending radially from said outer peripheral face.
- [c16] A piston ring according to Claim 11, wherein said lower surface further includes a generally hook-shaped groove and the intersection of said generally hook-shaped groove and said outer peripheral face defines said edge.